

ABSTRACT OF THE DISCLOSURE

A vertical water wall assembly (100) for generating dynamically changing water patterns in a contained channel (114) behind a viewing surface. The water wall assembly includes a translucent front sheet (110) directed toward a viewing space with a rear side containing a multiplicity of concave depressions (111), and a rear sheet (140) disposed behind and in proximity to the front sheet that in part acts as a contrasting background. The edges of these sheets are sealed (120,122) and water is made to flow in the space defined between the two sheets, entering at the top of the sheets (135) and exiting at the bottom of the sheets (150). The flow of water into the water wall at the water inlet (125) is time varying and is preferably computer-controlled (190). In operation water flowing in the contained channel (114) of the water wall takes dynamic, chaotic pathways through the multiplicity of concave depressions (111). As individual depressions fill and empty, air bubbles that formerly occupied the depressions propagate down the contained channel. This behavior generates a non-uniform "bubbling" sound in the water wall, while contributing to the overall visual effect of the invention.